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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,921	09/26/2006	Alexander Cross	975902600120	2911
7590 06/13/2008 Lorri W Cooper			EXAMINER	
Jones Day			DUNLAP, JONATHAN M	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/529,921 CROSS ET AL.

Office Action Summary					
Onice Action Summary	Examiner	Art Unit	1		
	Jonathan Dunlap	2855	Ļ		
The MAILING DATE of this communication app Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CPR. 1.7. - If NO period for reply is appecified above, the maximum statutory period. - If NO period for reply within the act or extended period for reply will. by statute Any reply received by the Office later than three months after the mailing aemed patent term adjustment. See 37 CPR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirt will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 01 A	<u>pril 2005</u> .				
2a) This action is FINAL. 2b) This action is non-final.					
3)☐ Since this application is in condition for allowar	nce except for formal matters, pro	secution as to th	e merits is		
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdray	wn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8)☐ Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>01 April 2005</u> is/are: a)		by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.		
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
 Certified copies of the priority documents 	s have been received.				
2. Certified copies of the priority documents have been received in Application No					
 Copies of the certified copies of the prior 	rity documents have been receive	ed in this Nationa	l Stage		
application from the International Bureau	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachment(s)	_				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail D				
3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SE/03)	5) Notice of Informal F				
Paper No(s)/Mail Date 04/01/2005.	6) Other:				

Paper No(s)/Mail Date 04/01/2005.

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show
every feature of the invention specified in the claims. Therefore, the jackscrews, sensor
for controlling clamping operation, sensor for location modules and the breakaway
portions must be shown or the feature(s) canceled from the claim(s). No new matter
should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (a) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (i) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States

 Claims 1, 11, 14 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Koike et al. (US Patent 5305650).

Considering claim 1, Koike discloses a workstation for providing samples comprising:

- at least a platform base, which has at least one module 11 with at least one reservoir for a chemical educt and at least one module 10 with at least one target container;
- a metering system 12 for the metering of the sample;
- a portal system 13, which is arranged above the platform and which maneuvers the metering system in all three directions in space;
- a control device 100 for controlling the movements of the metering system 12; and
- a measuring system 302 for the samples, characterized in that wherein the metering system has a gripper device for the uptake of a metering tool, which is supported within at least one module 12 on the platform, and wherein the measuring system 302 is on the same platform as the metering system and the measuring system 302 is a gravimetric load cell (All found in Figures 1, 4-6 and 18; Column 2, lines 1-68; Column 3, lines 1-4; Column 5. lines 29-68, Column 6, lines 1-24; Column 9, lines 3-51; Column 13, lines 50-68; Column 14, lines 1-4, The term "integral" does not require a unitary one-piece structure. In re

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<u>Kohno</u>, 391 F.2d 959, 157 USPQ 275 (CCPA 1968); <u>In re Larson</u>, 340 F.2d 965, 144 USPQ 347 (CCPA 1965))

Considering claim 11, Koike discloses that the measuring system 302 is arranged as a module on the platform (Figure 18).

Considering claim 14, Koike discloses that the metering system has a pump 303 and a connection for a liquid 309 (Figure 19; Column 13, lines 23-46).

Considering claim 16, Koike discloses that the platform further has at least one module with a heating device 64 and/or at least one module with a mixing device 58-61 (Figure 3; Column 8, lines 9-52).

Considering claim 17, Koike discloses that the metering system has at least one sensor for the detection of the position of the modules (Column 5, lines 4-18; Column 6, lines 1-24, lines 53-68; Column 9, lines 12-51).

Considering claim 18, disclose that the modules have at least one marking, which is detectable by the sensor (Column 5, lines 4-18; Column 6, lines 1-24, lines 53-68; Column 9, lines 12-51).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 2-5 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et al. (US Patent 5305650) in view of Yakou (US Patent 5150937). Application/Control Number: 10/529,921
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Considering claim 2, Koike discloses that the gripper device has two support means being faced diametrically, which are movable in a concentric manner towards each other (Figures 6-7).

The invention by Koike fails to disclose that there are four supports.

However, Yakou teaches the use of a four supports (Figure 13; Column 13, lines 62-68; Column 14, lines 1-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize four supports in the invention by Koike as taught by Yakou. The motivation for doing so is found in the teachings of Yakou, "four finger members are set in a cross-shape...a work can be clamped by their four surfaces...as a result, the work can be clamped while being aligned," which shows that four supports are better at maintaining a proper grip than two supports (Column 15, lines 22-47).

Considering claim 3, Koike fails to disclose that two support means are supported in a pair of linear orientated slide bars, respectively, wherein the pairs of slide bars are arranged perpendicularly towards each other.

However, Yakou teaches the use of two support means are supported in a pair of linear orientated slide bars, respectively, wherein the pairs of slide bars are arranged perpendicularly towards each other (Figure 13)

Considering claim 4, Koike discloses that the support means have a geometry, which allows a form-complementary clamping with the geometry of the metering tool (Figures 6-7).

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Yakou also teaches the use of four supports with a complementary geometry (Figure 13: Column 14. lines 60-68: Column 15. lines 1-47).

Considering claim 5. Koike discloses that the support means are exchangeable (Column 6. lines 25-46).

Considering claim 9, Koike fails to disclose that the support means are activated pneumatically for the clamping.

 However, Yakou teaches the use of pneumatics for clamping the support means (Column 8, lines 55-59).

The invention by Koike teaches a method of moving the support means. The invention by Yakou teaches an alternate method of moving the support means. At the time the invention was made, it would have been obvious to one of ordinary skill in the art to utilize any known method of moving the support means that would have been able to obtain predictable results. Therefore, the use of the pneumatics, as taught by Yakou, would have been recognized as an appropriate means for moving the support means and would have reached predictable results.

Considering claim 10, Koike fails to disclose that the support means are coupled with at least one sensor, which controls the clamping process.

- However, Yakou teaches the use of a sensor coupled with the support means to control the clamping process (Column 10, lines 5-62).
- 8. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a sensor coupled with the support means to control the clamping process as taught by Yakou in the invention by Koike. The

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motivation for doing so is found in the teachings of Yakou, "[t]he control unit also comprises a memory section for storing shape data unique to works. The shape data includes data indicating out dimension of each work, and separation angle data of the first to third finger members necessary for attaining optimal pickup positions when a work is to be picked up" (Column 10, lines 36-52).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et
 al. (US Patent 5305650) in view of Yakou (US Patent 5150937) as applied to claim 5
 above, and further in view of either Schaefer et al. (US Patent 3843187) or Hennekes et
 al. (US Patent 4500065).

Considering claim 6, the invention by Koike, as modified by Yakou fails to disclose that the support means have a breaking point, in such a way that by breaking of said breaking point an overload of the gripper device or of the object gripped therewith is minimized or avoided.

10. However, as shown in the disclosure of Schaefer (Column 3, lines 10-50) and Hennekes (Column 3, lines 56-68; Column 4, lines 1-22, lines 55-68), the use of break away support members in a robotic gripper is well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a break away support means as taught by either Schaefer or Hennekes in the invention by Koike, as modified by Yakou. The addition of the break away support means would be seen as an improvement to the invention of Koike, as modified by Yakou, and one of ordinary skill in the art at the time the invention was made would

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have recognized that the addition of the break away support means would have realized predictable results.

11. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et al. (US Patent 5305650) in view of Yakou (US Patent 5150937) as applied to claim 5 above, and further in view of either Schaefer et al. (US Patent 3843187) or Hennekes et al. (US Patent 4500065) as applied to claim 6 above, and furthermore in view of Jokes et al. (US Patent 6455002).

Considering claim 7, the invention by Koike, as modified by Yakou and Schaefer or Hennekes, fails to disclose that support means has an adhesion layer for an increased adhesion.

 However, Jokes teaches the use of an additional layer of material placed on the support means for the purpose of increased adhesion (Column 3, lines 42-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize an adhesion layer on the support means as taught by Jokes in the invention by Koike, as modified by Yakou and Schaefer or Hennekes. The motivation for doing so is found in the teachings of Jokes, "[t]he gripper fingers have, on their end regions, grooved contact surfaces which face on another and are covered with a nonslip, resilient coating...for improved adhesion" (Column 3, lines 51-55)

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13. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et al. (US Patent 5305650) in view of Yakou (US Patent 5150937) as applied to claim 2 above, and further in view of Smith et al. (US Patent 6296635).

Considering claim 8, the invention by Koike, as modified by Yakou, fails to disclose that the support means are movable by means of electrically activated jackscrews.

14. However, Smith teaches the use of electrically activated jacksrews to move support means (Column 7, lines 63-67; Column 8, lines 1-4; Column 6, lines 53-66; rotary motors are electric, therefore, it would have been obvious to utilize electrically motorized jackscrews).

The invention by Koike, as modified by Yakou, teaches multiple methods of moving the support means. The invention by Smith also teaches alternate methods of moving the support means. At the time the invention was made, it would have been obvious to one of ordinary skill in the art to utilize any known method of moving the support means that would have been able to obtain predictable results. Therefore, the use of the electrically activated jackscrews, as taught by Smith, would have been recognized as an appropriate means for moving the support means and would have reached predictable results.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koike et
 (US Patent 5305650) in view of Guhl (GB 2 284 901 A).

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Considering claim 15, Koike fails to disclose that the metering system has a vibration device in order to excite the metering tool into a defined vibration.

 However, Gul teaches the use of a vibration device to excite the metering tool (Page 3, 6th Paragraph).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a vibration device in order to excite the metering tool as taught by in the invention by Koike, as modified by Yakou. The motivation for doing so is found in the teachings of , "[b]y shaking the sample substance during the filling procedure a clogging of the sample substance due to static friction is largely prevented, clumps are broken-up, the surface is levelled and a practically continuous pouring occurs at a slow filling rate" (Page 3, 6th Paragraph).

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Dunlap whose telephone number is (571)270-1335. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Edward Lefkowitz/

Supervisory Patent Examiner, Art Unit 2855

/J. D./ Examiner, Art Unit 2855 June 1, 2008